

SKETCH  
BOOK

Thaxter

1895s

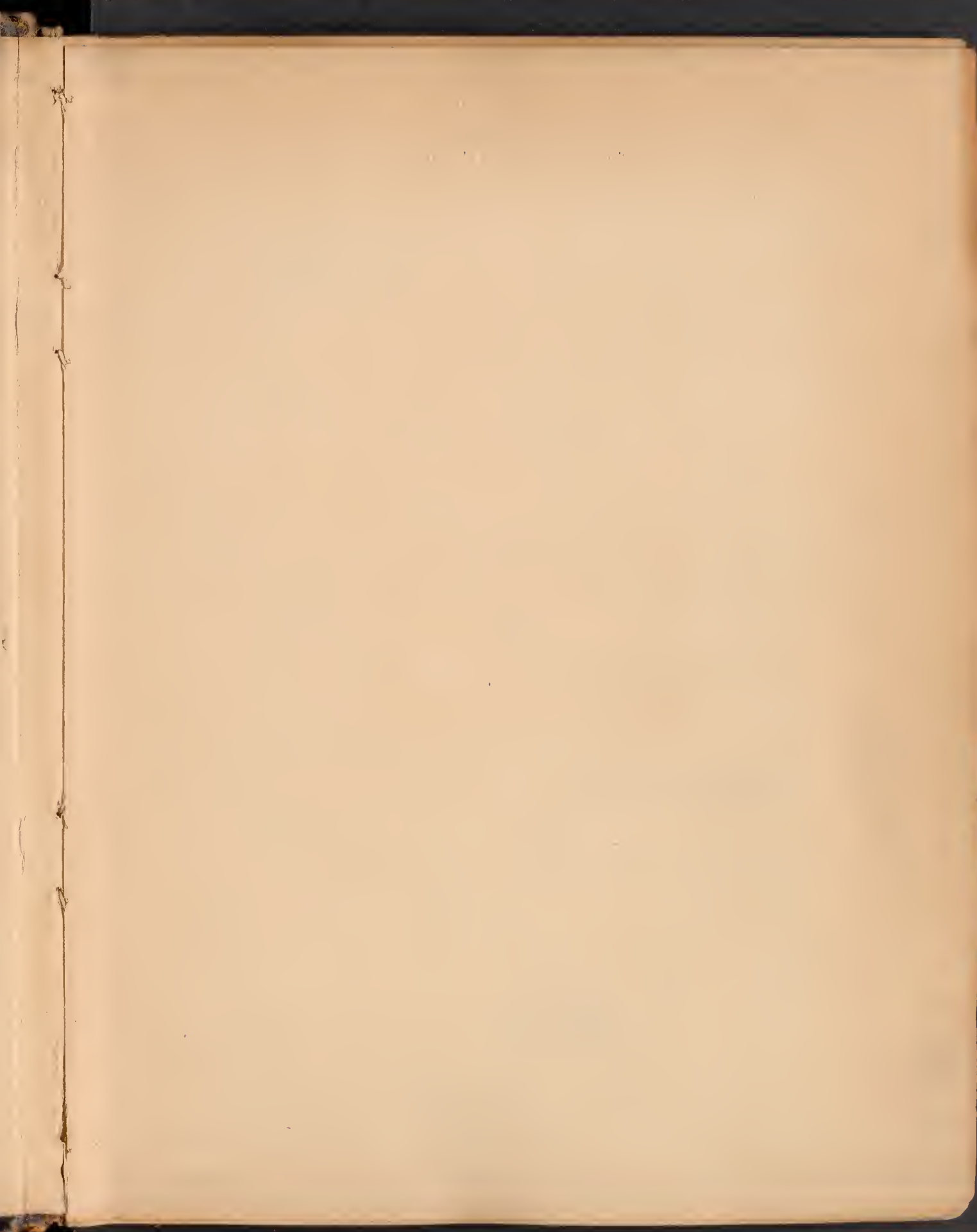


Harvard University



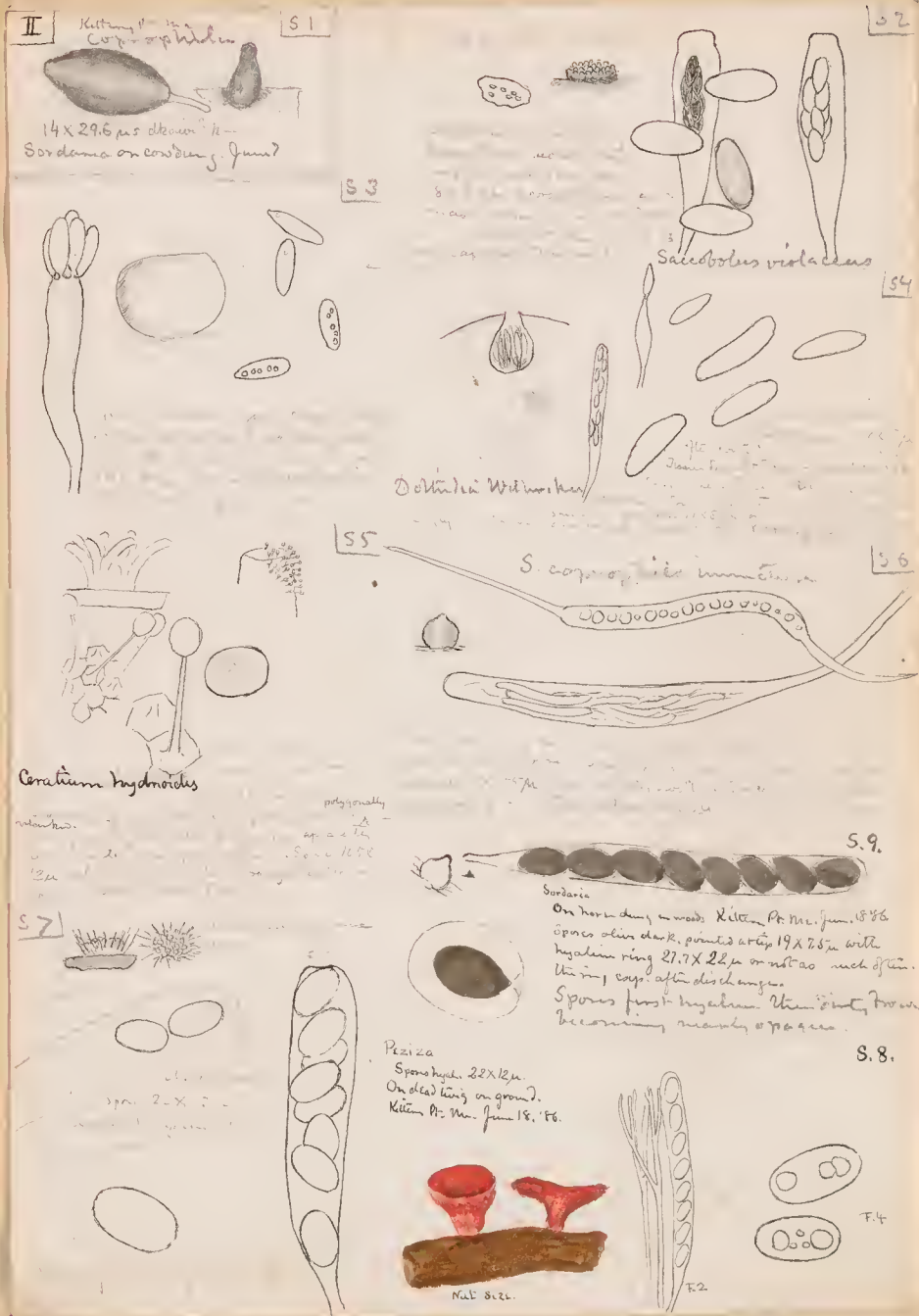
FARLOW  
REFERENCE LIBRARY  
OF  
CRYPTOGAMIC BOTANY

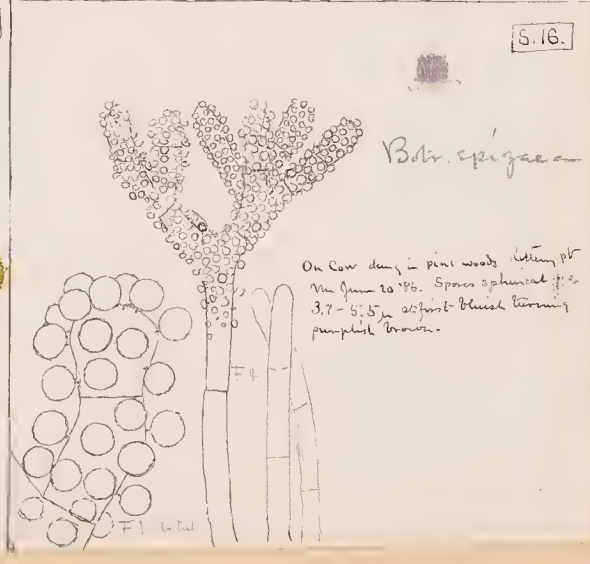
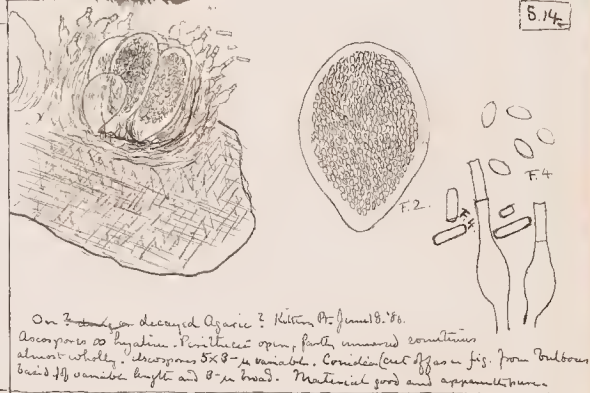
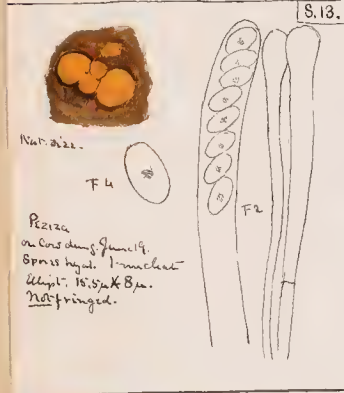
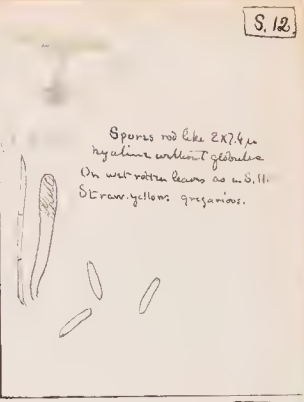
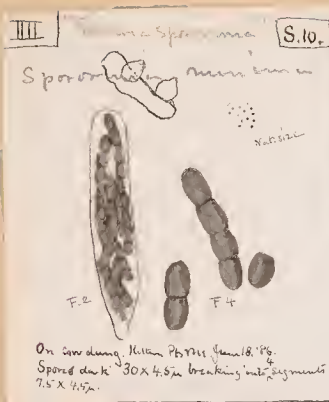
GIFT OF  
ROLAND THAXTER



Г 3. 483.

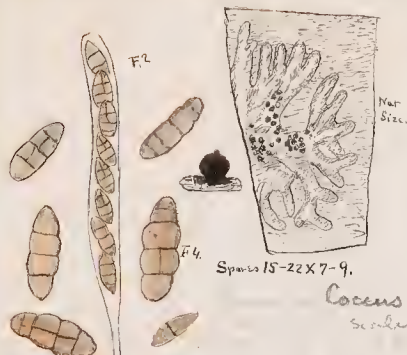
Summer 1886.







S.17.



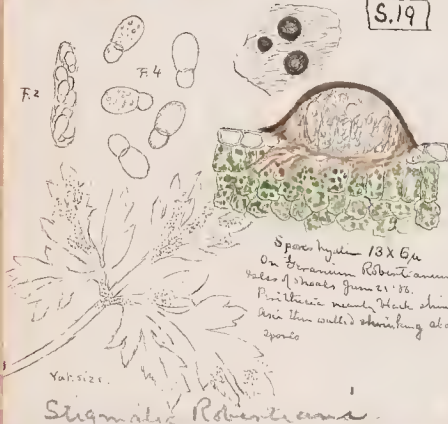
S.17.

S.18



*Ascobolus immensus?*  
On cow dung, Kaituma Pt. N.W. June 18, '85.  
Spores 66 x 33 (half). Scattered minute. Perithecia in greenish jelly. More spores than drawn. Spores with hyaline involution. At first hyaline growing, dark purple probably finally opaque.

S.19

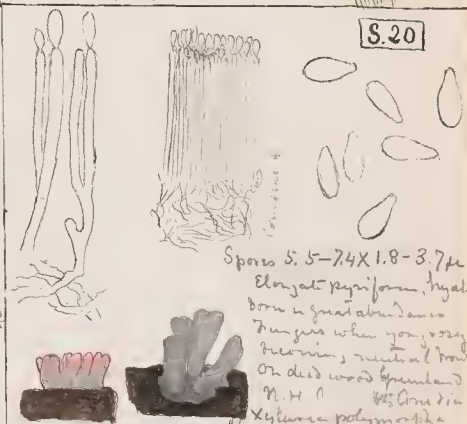


Spores hyaline 13 x 6 μ  
On *Brassica Robertiana*  
Hales of Hales June 18, '85.  
Perithecia nearly black shiny  
Asci then with a shining above  
spores

Nat. Size.

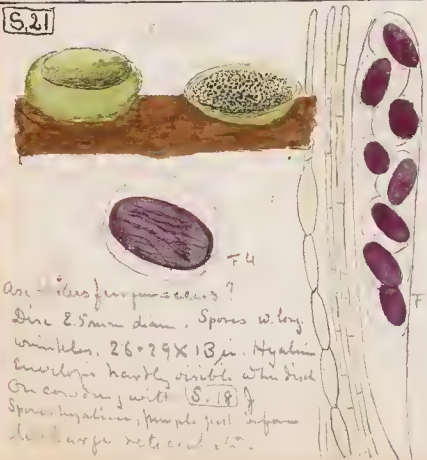
*Stigmatalia Robertiana*

S.20



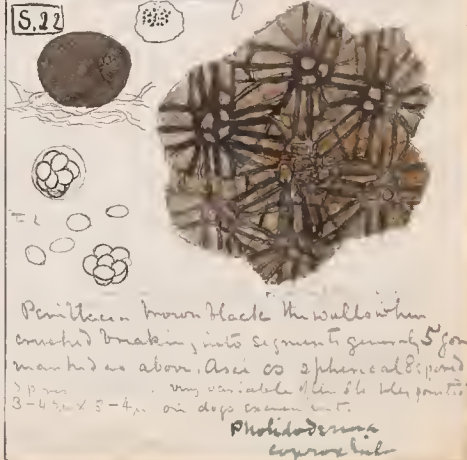
Spores 5.5-7.4 x 1.8-3.7 μ  
Elongate pyriform, hyaline  
born in great abundance  
Fungus when young, very  
fleshy, succulent, brown  
On dead wood Greenland  
N.H. 1885  
*Xylaria polymorpha*

S.21

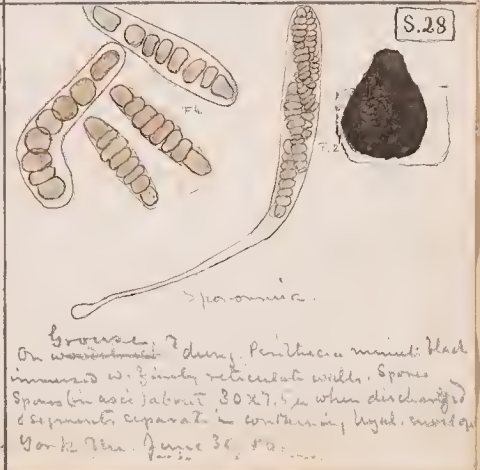
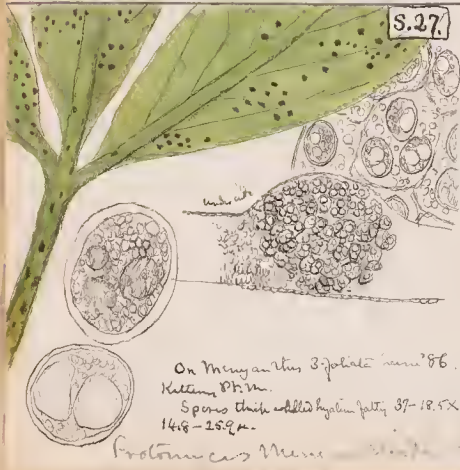
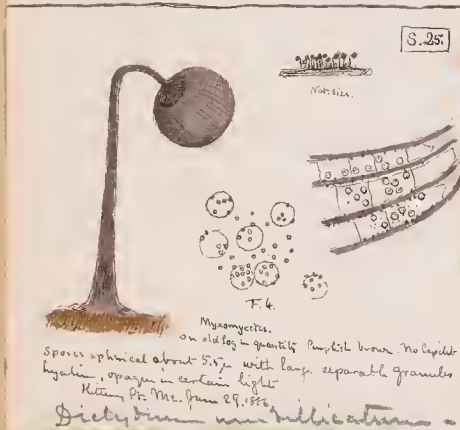
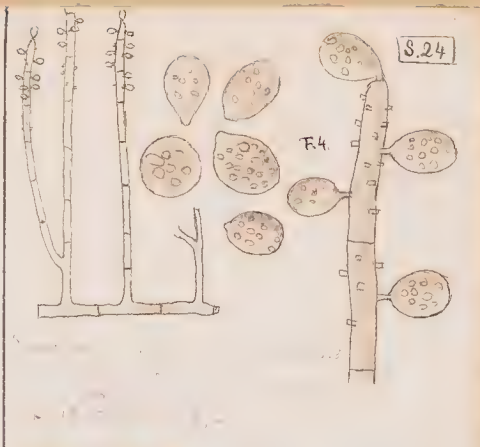
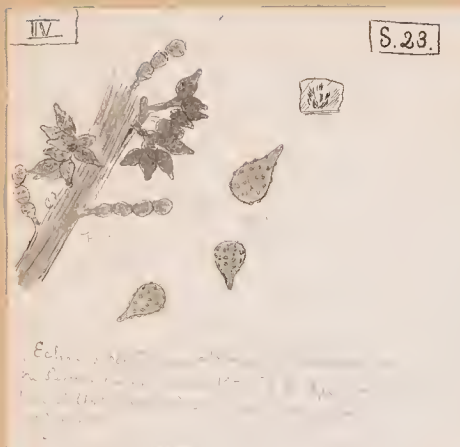


*Asciobolus purpureus?*  
Disc 2.5 mm diam. Spores w. long  
ovoid, 26 x 29 x 13 μ. Hyaline  
envelopes hardly visible with disk  
On cow dung with S.18  
Spores hyaline, purple just before  
becoming reticulate etc.

S.22



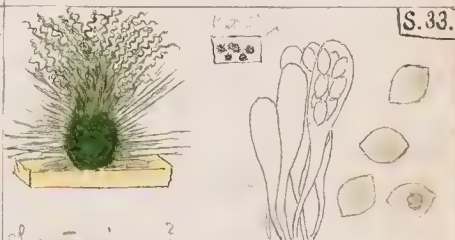
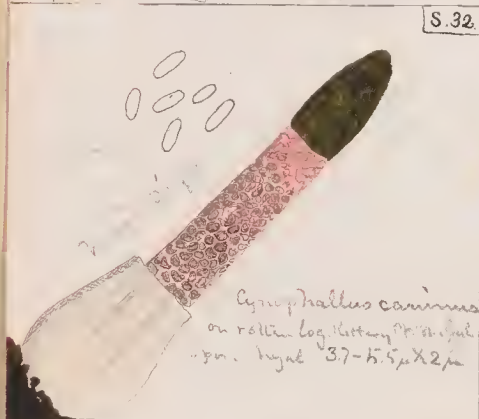
Perithecia brown black the walls when  
crushed breaking into segments generally 5 gon  
marked as above. Asci as spherical 8 spored  
spores very variable often 5 to 10 μ long  
3-4 μ x 3-4 μ or deep brown etc.  
*Photidodermis*  
*cupressicola*



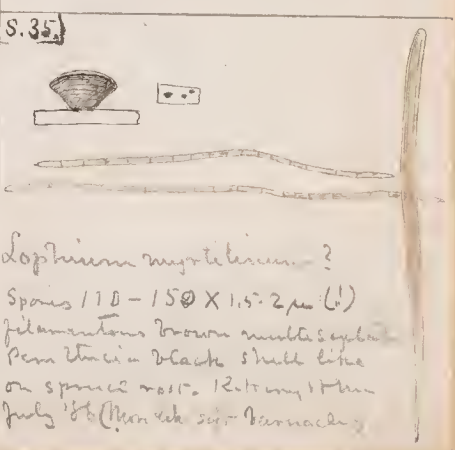
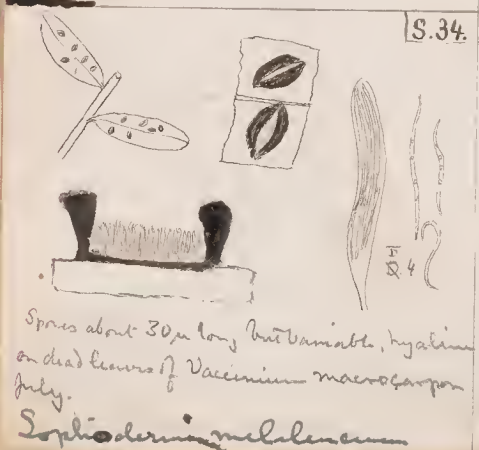




Spores 8-11  $\mu$  x 3.7-4.5 on rotten wood growth to 2 x 1 mm lobulate.



Culture on pine wood. gregarious crowded. Spores pointed. Walls of asci evanescent so that a mass of spores exudes from perithecia 7.5-12  $\mu$  x 7-9  $\mu$  slightly greenish brown.



VI

S.36



On decaying *Peper* under a spruce. Spores  
very about 2  $\mu$  diam hyaline, Perithecia  
brown black. Spores more elongate than  
above superficial long necks  
Kittling Pt., Mo. July 1886.

S.37



On dead *Solidago Caninus* etc. July 1886  
Spores rarely 7-septate 18-26  $\times$  5.5-7.5  $\mu$ .

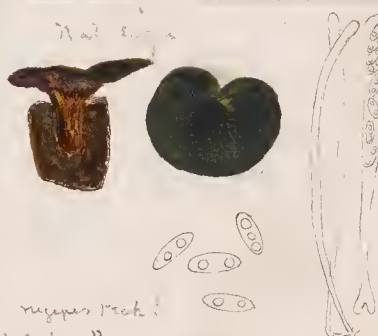
S.38



Spores 11  $\mu$  - 150  $\times$  4-6  $\mu$   
rarely 15-septate brown. In moss  
July 25 1886. Kittling Pt. Mo. H. H. H. H.

Sporoglossum

S.39



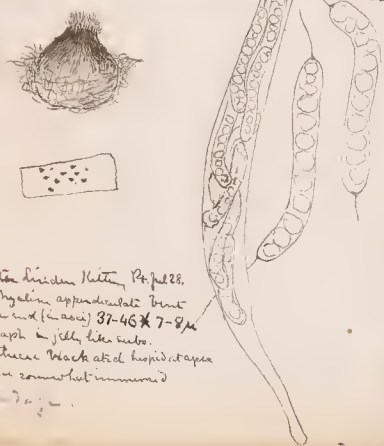
myces rock!

"Helotium" versiforme?

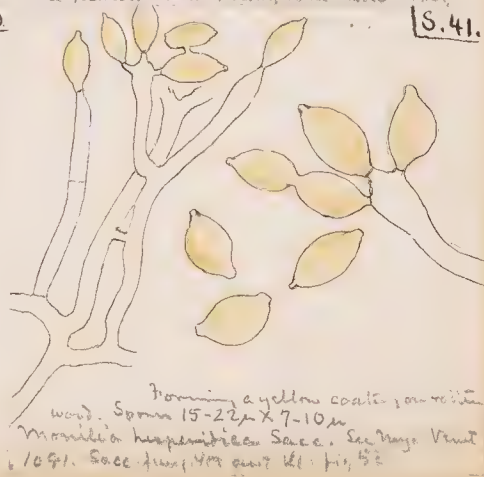
On living *Juniper* 28 1886. *Agropyrum* turning golden  
brown first leaves above; beneath brownish purple  
Stems yellowish brown. Spores hyaline 8-13  $\times$  3-4  $\mu$ .

S.41.

S.40



On rotten *Juniper* Kittling Pt. July 28.  
Spores hyaline, appendiculate, blunt  
at lower end (in acid) 37-46  $\times$  7-8  $\mu$   
no perithecia in jelly like culture.  
Perithecia black, oblique, apices  
oblique somewhat immersed  
Appendages.

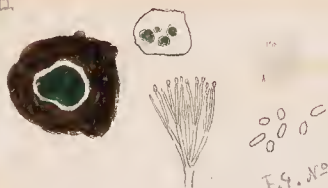


Forming a yellow coating on rotten  
wood. Spores 15-22  $\mu$   $\times$  7-10  $\mu$   
*Monilia hesperidicola* Sacc. See N. Y. Nat.  
1091. Sacc. fung. 409. *Monilia* 1886.



VII

S.42.



See M. inundatum 30d See Sacc F. 9. N. 860  
26<sup>th</sup> Sep. 1879.

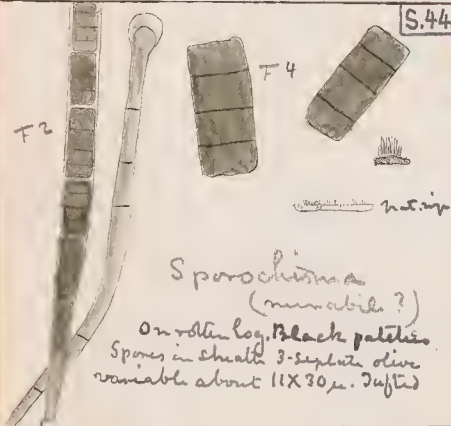
*Myrothecium?* fungicola Peck  
On dry Agaves. Pizigah. Spores  
hyaline about  $3 \times 1.5 \mu$  variable -  
sometimes elongate -  
Killing Pt. Mex. July '86.

S.43



Cultivation on sheep dung. Spores round to  
long ellipt.  $3-5 \times 2-3 \mu$  hyaline. Head a  
mass of spores. Head of spore branching mycelium at base.  
head white or yellow  
Stillborn rhodoccephalum

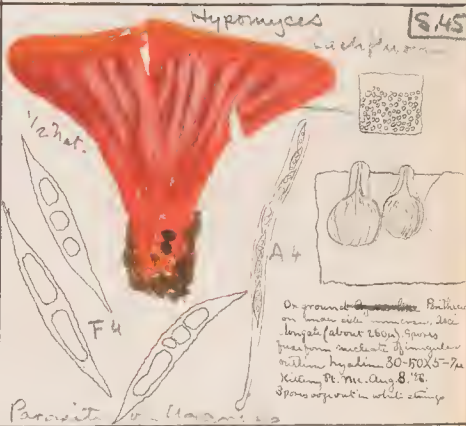
S.44



*Sporochium*  
(*mirabile*?)

On rotten log. Black patches  
Spores in sheath 3-septate olive  
variable about  $11 \times 30 \mu$ . Tufted

S.45



Hypomyces

richardsonii

Parasite of *Clavaria*

On ground ~~in~~ *Clavaria*. Pathetic  
on lawn with *Clavaria*. 1882  
Large (about 1800) spores  
greenish, sacculate, hyaline  
with hyaline  $30-50 \times 5-7 \mu$   
Killing Pt. Mex. Aug. 8, '86  
Spores abundant in white stumps

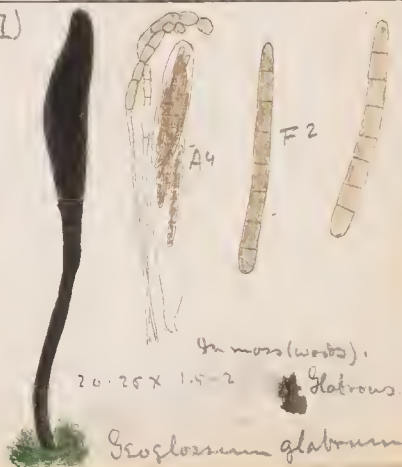
S.46

S.47



*Lectia rubica*

Woods, common



In moss (worts).

$20-25 \times 1.5-2$

Glabrous.

*Geoglossum glabrum*

Autumn 1885.

VIII



S.48



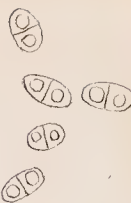
T = 4

F 2.

On grass along  
Kittum Pt. July Aug.  
Spores 10-12 X 5.5-7.5  $\mu$   
Hyaline thin pale  
reticulate.

Asciobolus

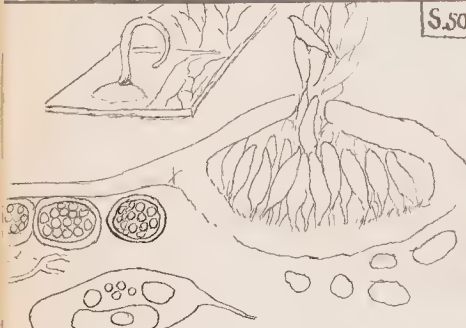
S.49.



On rotten log. Kittum Pt. Aug 10.  
Spores 10-12 X 5.5-7.5  $\mu$   
Hyaline thin pale  
reticulate.

new

S.50



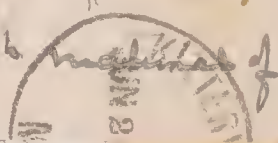
On various ferns Aug. Kittum Pt.  
"S. 50" - 1919.



Common

Sketch from J. B. H. H. H. H. H.

S. 51.

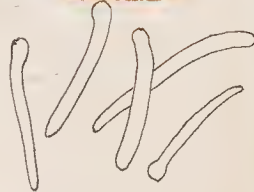


S.52



*Guepinia spathulana*.  
(American)

S.53

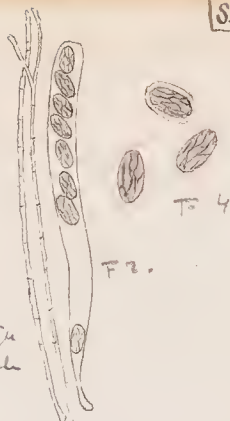


Peziza



Autumn 1885.

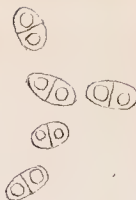
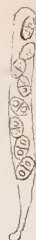
VIII



On mosses along  
Kittling Pt. July Aug.  
Spores 10-12 x 5.5-7.5  $\mu$   
Hyaline thin pale  
reticulate.

Asciobolus

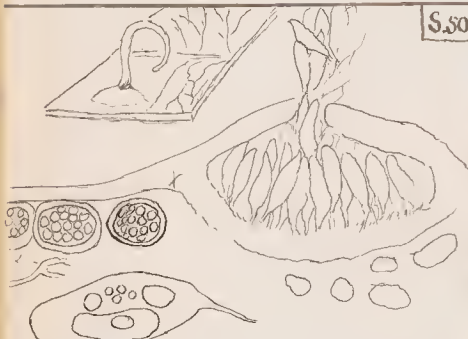
S48



On rotten log. Kittling Pt. Aug 10.  
Spores 1-sept 2-nucleate elliptical  
7.5-11 x 3.5-5.5  $\mu$

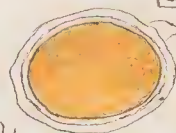
Neurospora walsbyana

S49



On various ferns Aug. Kittling Pt.  
"Glauc." "

S50



On Sphagnum. 1886.  
30-40  $\mu$  long  
- 119. 25

S51



Guepinia spathulana-  
(American)

S52

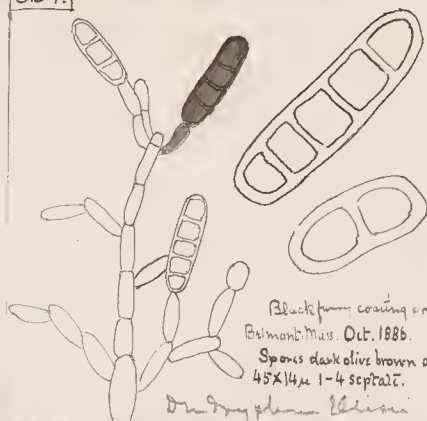


Peziza

S53

IX.

S.54.



Black fungus growing on log.  
Belmont, Mass. Oct. 1886.  
Spores dark olive brown about  
45X14  $\mu$  1-4 septate.

*Dendryphoria Edmonsi*

S.55. S.56



On rotten log, Belmont, Oct. 1886.  
Spores 1-septate. Brown 113-15X6-7  $\mu$   
*Penicillium* black papillate at first w. wooly  
subiculum then naked.

*Penicillium papillatum*



*Hypsiophora fragiformis*

S.57.

S.58.



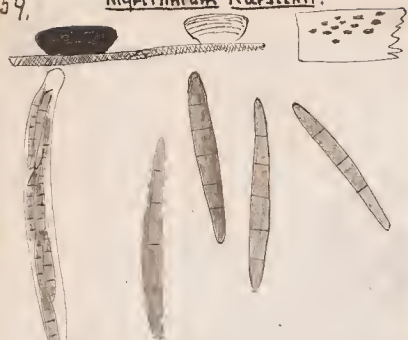
*Peziza* like. Small whitish gregarious  
small. On log Belmont-Mass Oct. '86  
Spores 2-septate very granular colorless Edmuntati

*Calycia*

9-12 X 3-5  $\mu$



S. 59.

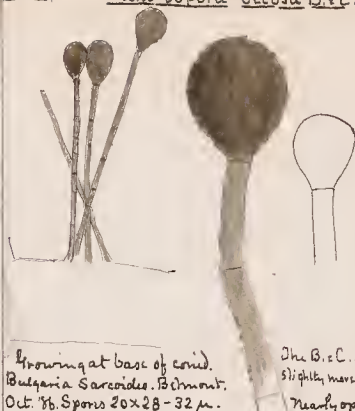
Mytilinidium Karstenii.

Perithecia shell like, black; on Pine stump  
Kittery Pt. Me. Nov. 6, '86.  
Spores 3-5 septate olive brown fusiform.  
40-50  $\mu$  x 3-6  $\mu$ .

S. 60.

Monotespora setosa B. & L.

X

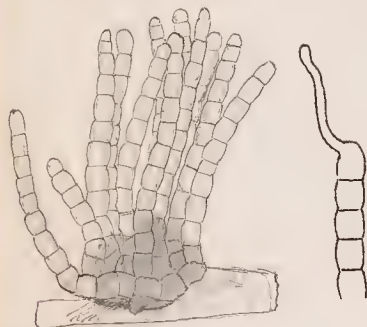


Growing at base of conid.  
Bulgaria Sarcoides Richmond.  
Oct. '86. Spores 20 x 28-32  $\mu$ .

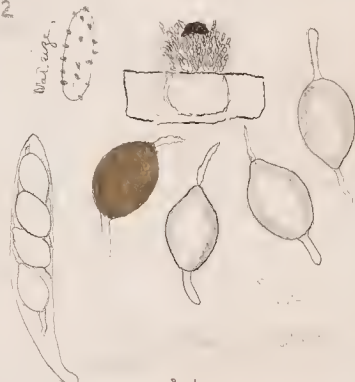
The B. & L. specimen has spores  
slightly more elongate pear shaped.  
Nearly opaque.

S. 61.

S. 62



Spira laruloides Corda.  
On dead wood. Kittery Pt. Me. Nov. 1886. Olive brown  
Dr. F's specimens slightly smaller



Podospore minuta var. tetraspora.



Spores oval 7-9  $\mu$  x 4-5  $\mu$  hyal.  
apoth. granular lined on top, shiny  
Dec.



Spores hyal oval 7 x 4  $\mu$  asci very many in a  
perithecium 11 x 8.5  $\mu$  8-spored on decaying Dec.  
Perithecia roundish flattened dark minute

XI

S. 65



On dog dung  
Cambridge Dec.  
reddish coating  
Spores reticulate brown  
15X11µ - 18X13µ

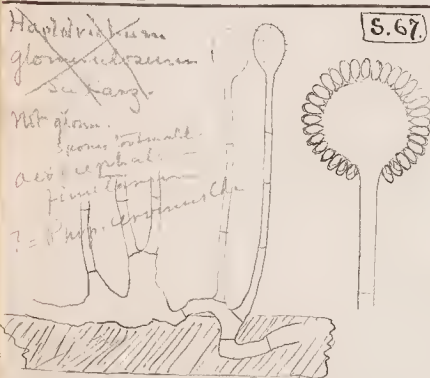
*Ascobolea* ~~reticulata~~ *Asco.*

S. 66.



White tufts on <sup>cat's</sup> dog dung. Spores thick-walled  
hyaline spherical 15-20µ diam.

*Botrytis* *subulifera* Sacc.



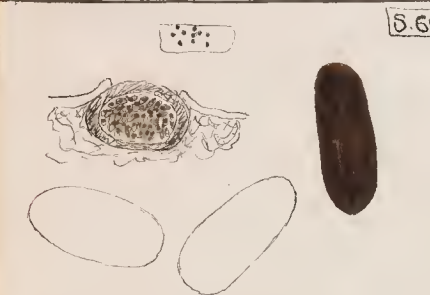
Whitish horse dung. Spores hyal 7X3µ  
Myelium long. *Cephal.*

S. 67



*Caloglyphus* *pinus* Peck.  
On *Pinus Strobus* trunks  
Often apparently erumpent  
Spores brown 4-6X3-4µ. Asci on long  
slender pedicels  
Kittery Pt. Me. Dec. 31.

S. 68.



*Sphaeropsis* *macrospora* n. s.  
On *Pinus Strobus* breaking thro bark  
Spores apparently not in asci 60-75X15µ  
dusky brown. Kittery Pt Me. Dec. 31.

S. 69.



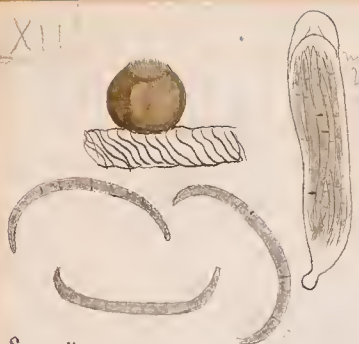
Erumpent (not carbonaceous?)  
On *Pinus Strobus* Kittery Pt Me. Dec 31. '86  
Spores about 35X15µ brown "sponules" slightly  
beaked about 8X5µ.

*Phoma* *Pinus*

S. 70

XII

S.71.



Spores slightly brownish 40-45X3-4µ. 15-20 septate granular. Asci o Perithecia with large mouth almost like a disc. Perithecia gregarious dirty yellowish on old bagging wrapped round a tree Jan 8 '87, Cambridge.

S.72



*Aspergillus platensis*  
Spores 8-11X5-6µ dark brown.  
Perithecia <sup>tear-shaped</sup> black. Paraphyses simple line.  
on RESIN. K. Hony Pt. New Dec 25 '83  
Pinus Strobus.

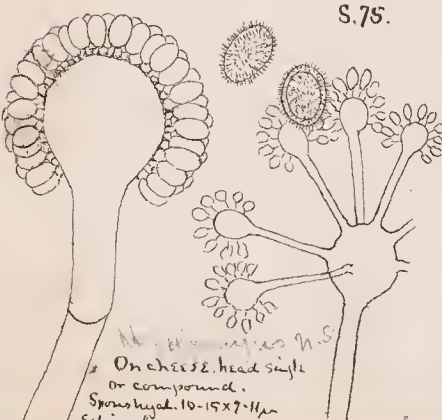
S.74.

*Aspergillus umbellatus*



S.75.

S.76



*Aspergillus* N.S.  
On cheese, head single or compound.  
Spores hyal. 10-15X7-11µ  
Echinulate.



*Ascobolus microscopius*  
In Stere. canis. Cambridge  
Feb. '87.  
Spores nearly round reddish brown  
10-12µ.  
Anastomy of S. 65. (Indegradus!)

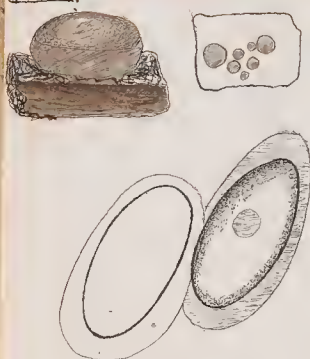


June - July 1887

XIII.

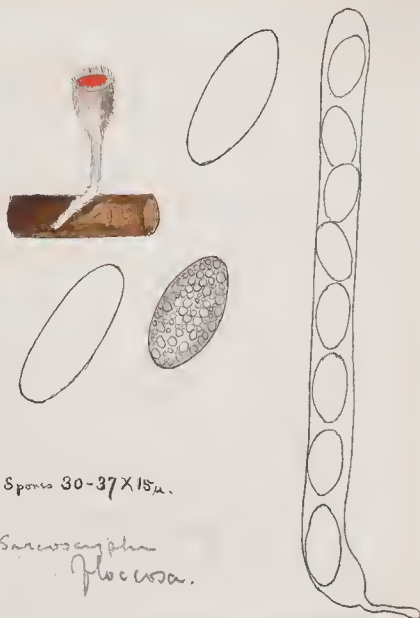
S. 77

S. 78



*Thecolium P. letitiae* P. S. D.

In Stom. bovis  
Callowhee N. C. June 1887.  
Spores 32 in ascus / 35-40 x 16  $\mu$ .  
hyaline, ringed.  
Colonies of Asciolus dirty white  
fragile, not crowded, convex.



Spores 30-37 x 15  $\mu$ .

*Sarcoscypha*  
*floccosa*.

S. 79.

S. 80.

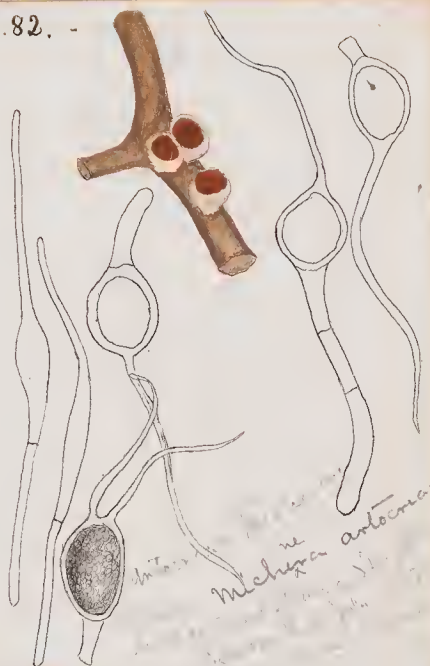


July 1887

XIV.

S. 81.

S. 82. -



S. 83

S. 84.



*Michya* -  
*Michya* -  
*Michya* -

"*Geoglossum luteum*" Pl.

*See Myxomycetozoa*

July 1887.

XV.



Heart

S.85.

S.86.



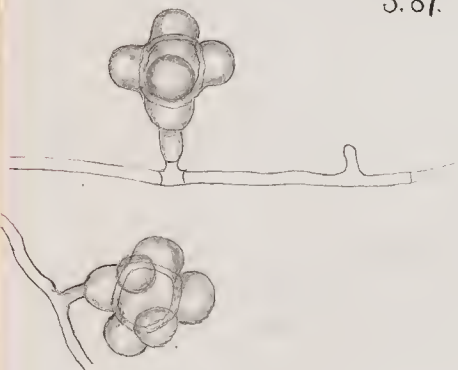
Let + ... and  
50-60X 3x

Chamberlain N.C. July 1887



S.87.

S.88.

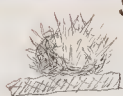




XVI.

S.89.

S.90.

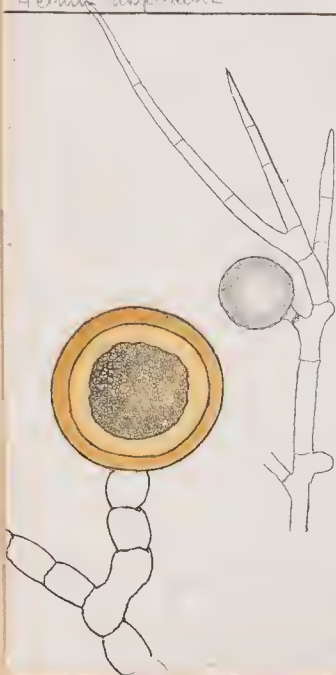


*Rosellinia cecogriai*  
*Helium thapsalum*

*Rosellinia*

S.91.

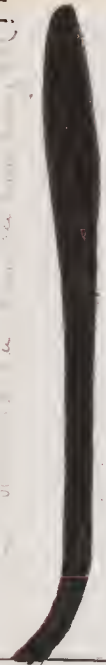
S.92.



ascospores about as in preceding

Aug. 1887

XVII.



S.93.



S.94.

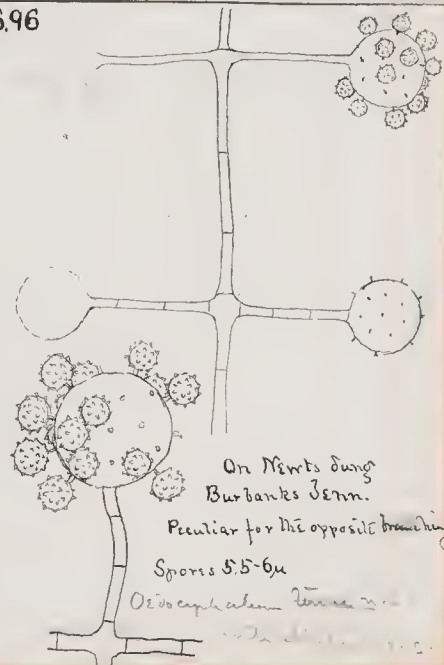


Burbank Fern.  
on Rabbits dung  
Spores 20-24x15 $\mu$

S.95



S.96



On Mewts dung  
Burbanks Fern.  
Peculiar for the opposite branching  
Spores 5.5-6 $\mu$   
*Ozocaphalum* *ferns*

XVIII.

S.97

S.98



*H. obtusa*



*H. obtusa* var.?

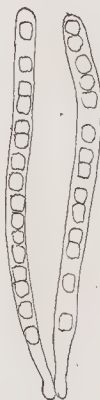


S.98.

S.99.



*Hypocrea citrina*



*Hypocrea latizonata* Pk.

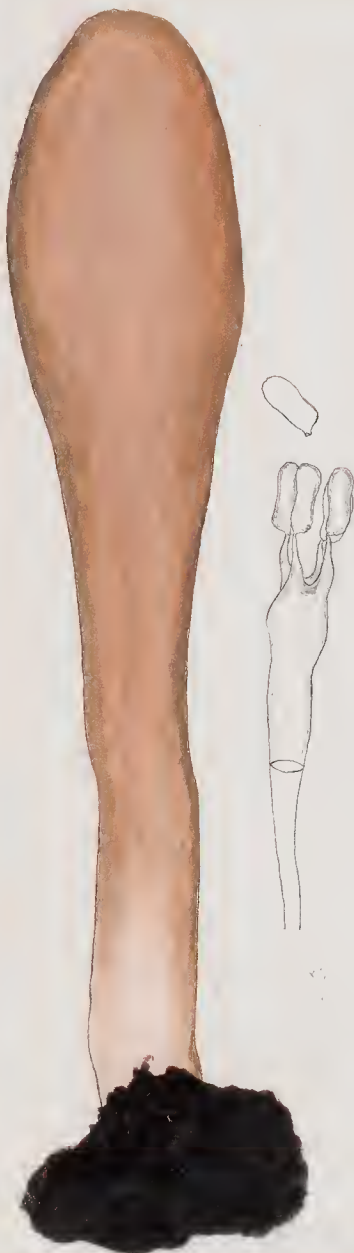
*striata*



XIX.

S.100

S.101



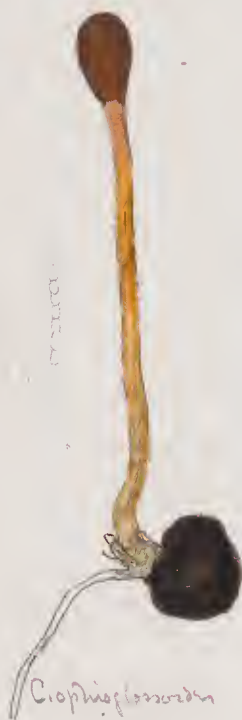
18x14.

*Sphaeria pannuloides*  
*Puccinia*  
*Aecosporium lichenum*  
 see Bolton & Murrill - Pl. 182  
*Hypocrepis Rhododendri*  
 on dead Rhodod. & on the  
 accidentally adjacent  
 plant

Hayes 1881

XX.

S.102.



*Crophioglossum*

S.103

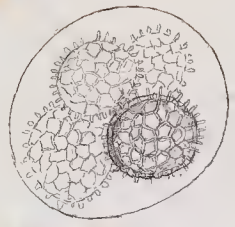
*C. capitata*



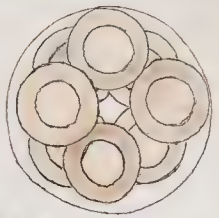
July 1897.

XXI.

S.104. S.105.



Tuberc.



Male = spores of spores

Elaphomyces

*Hypomyces petersoni*

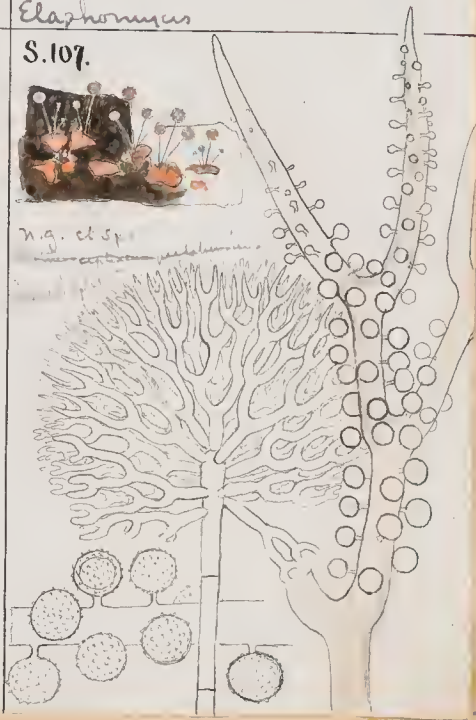
S.106.



S.107.



n.a. cl sp.

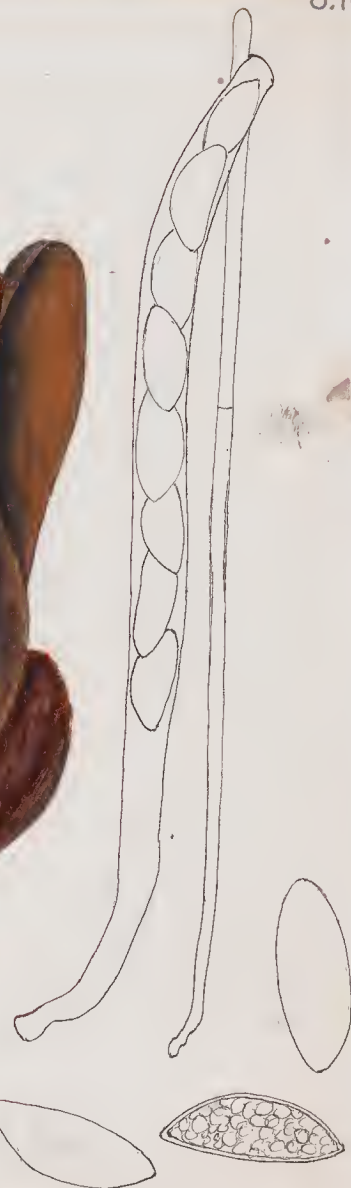




septa 1907

XXII

S.108



anther 2  
Cm  
IX, 14  
IX, 20  
IX, 25

Sept. 10. 1881

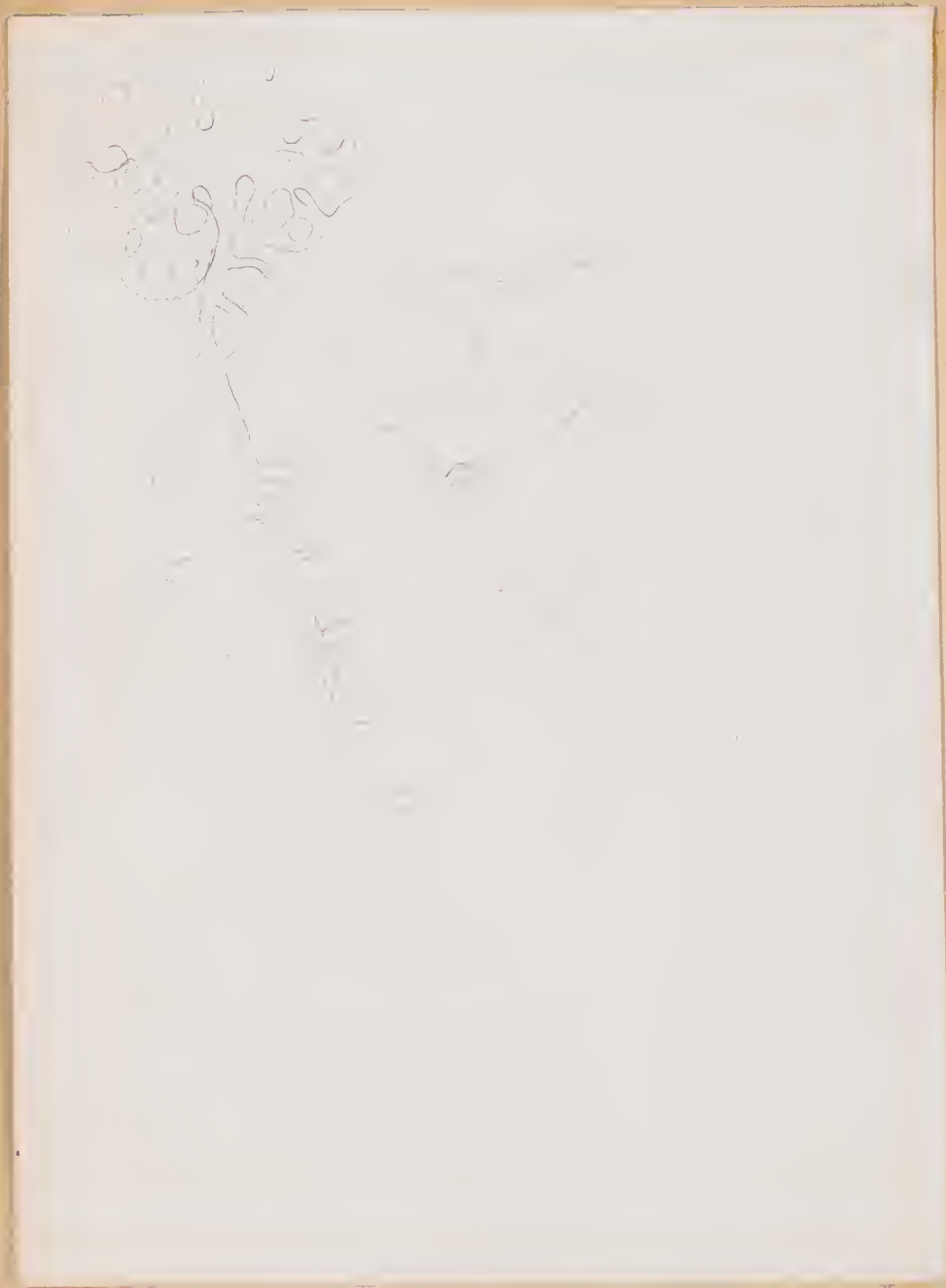
XXIII.

S. 109.



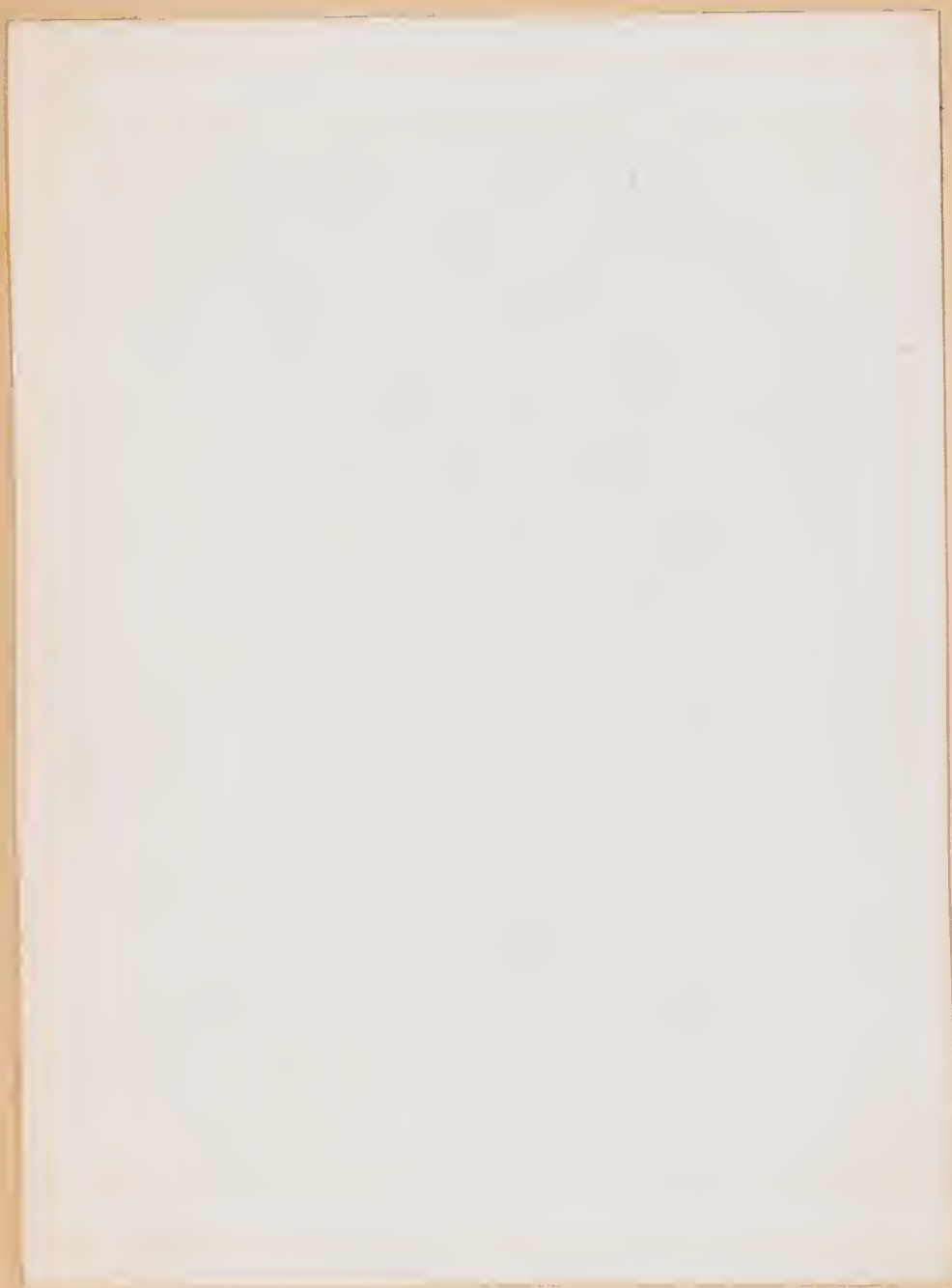
These zygospores are Saccagaster  
*Phycomyces furcata* . Mycelium is the  
 Basidium E. Tenn. on *leguminosae* *penicillatus*

These zygospores belong to Saccagaster, which was  
 grown, with the *penicillatus* Zygospores, but from the  
 the fungus were typical of Saccagaster, which was  
 the fungus.













Spores 200-225 x 1.5  $\mu$

Septate 1.5 x 2.5  $\mu$

Spore - 1.5 x 2.5  $\mu$





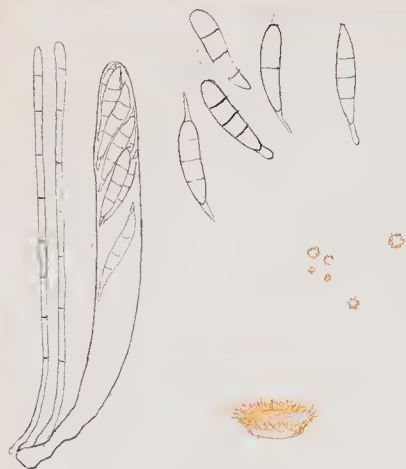




Near *E. citri* but spores too  
much rounded apically?

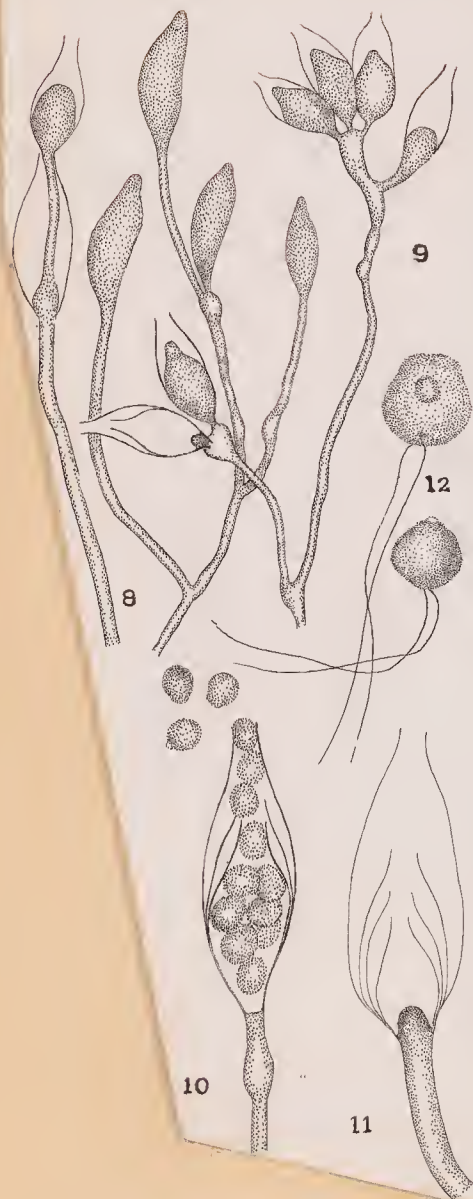
*Echinobotryum*  
growing w. and on *Mucors* on *Strec. canis*. New Haven, Conn.  
Dec. 1888.



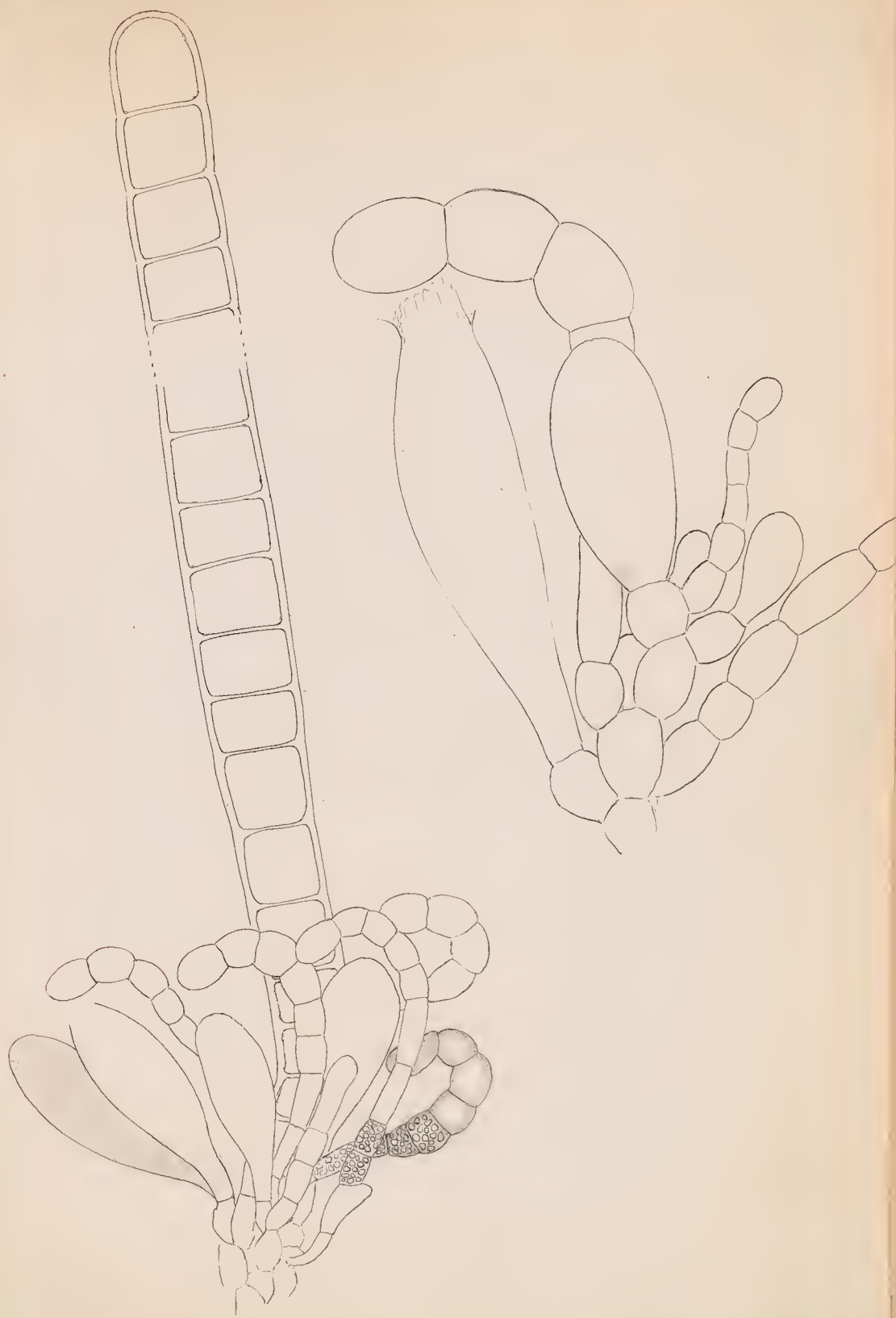


*Puzosia aeneola*

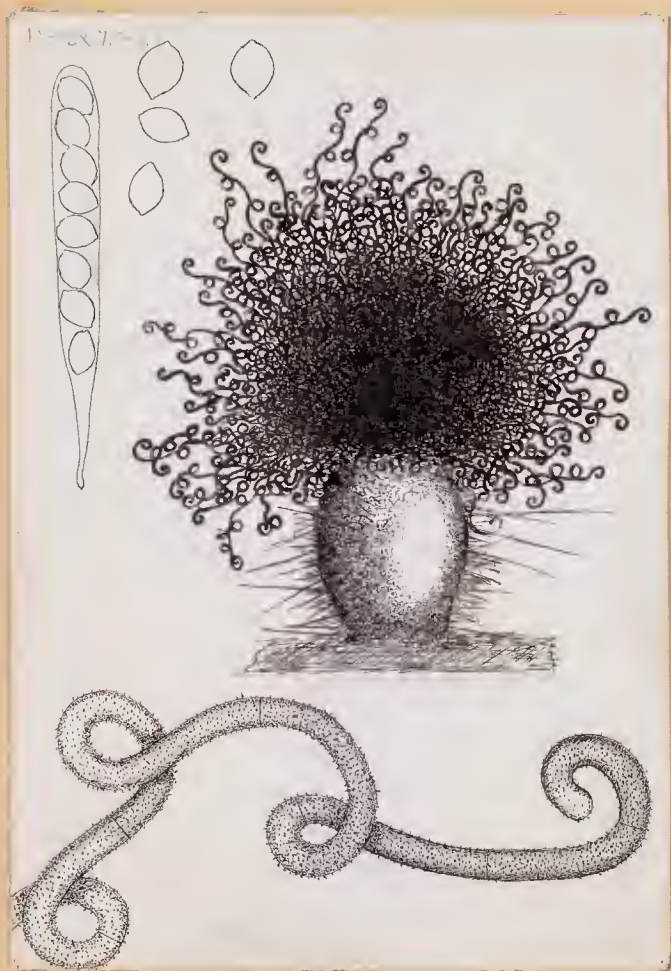




*Lechnia sp.*

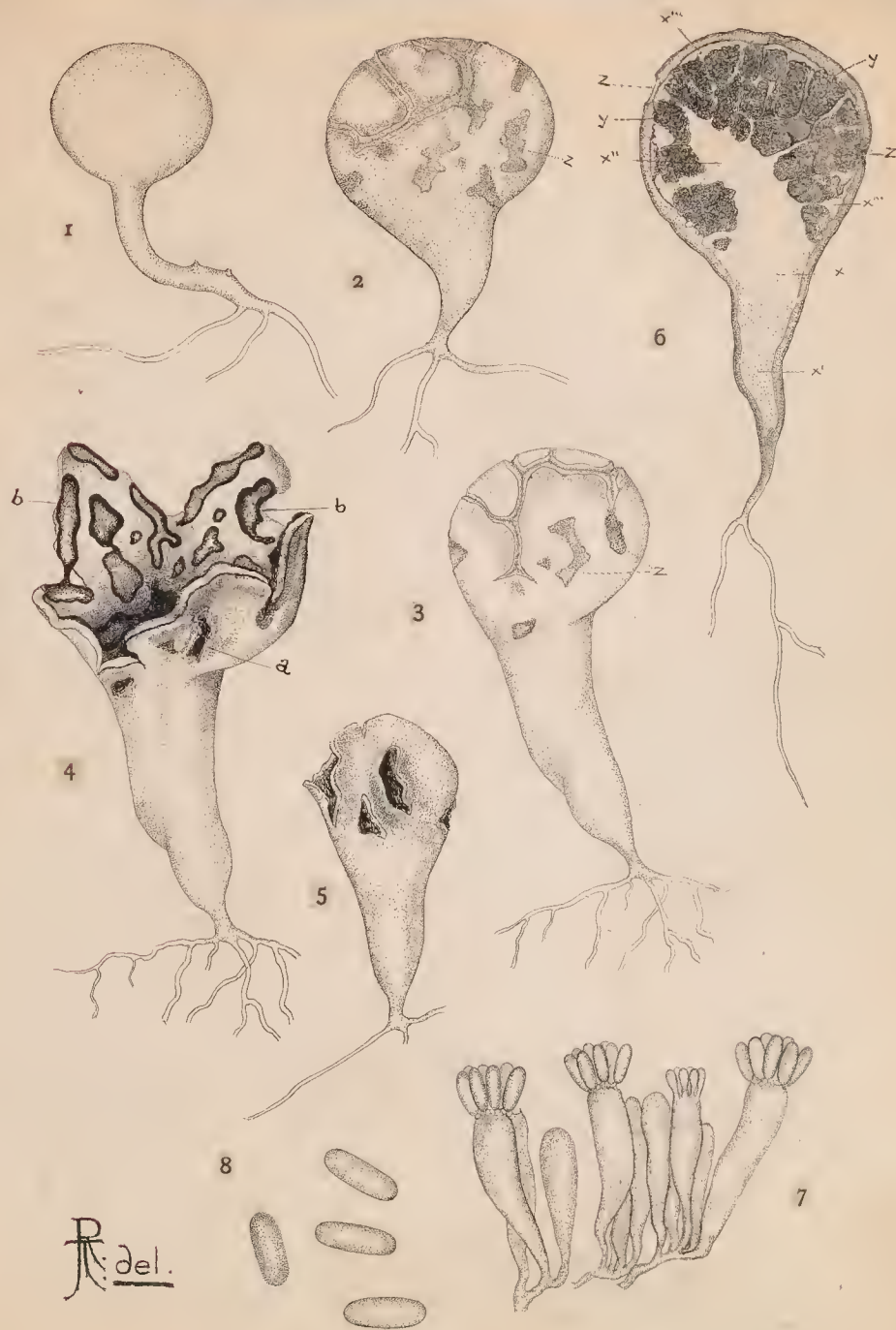


*Elachistea*





Phallogaster saccatus Morgan



R. del.

Reduce to  $4\frac{1}{2}$  in

18016-4/5-

caudatus

palidus

Bolachobius giran-

